What is Claimed is:

1.   A portable terminal for encrypting information, the portable terminal comprising:

means for generating a new key for each transaction, wherein the new key is generated using one or more properties of the portable terminal.

2.   A portable terminal according to claim 1, wherein the new key is generated when the transaction is executed.

3.   A portable terminal according to claim 1, wherein the one or more properties of the portable terminal include the date and time settings.

4.   A terminal according to claim 1, further comprising means for generating a unique challenge in addition to the new key so that a unique challenge can be issued for each transaction.

5.   A method of encrypting information in a portable terminal, the method comprising the steps of:

using one or more properties of the portable terminal to obtain a sequence of values; and

generating a new key based on the sequence of values.

6.   A method according to claim 5, further comprising the step of:

generating a unique challenge value based on the sequence of values.

7.   A method according to claim 5, further comprising the steps of:

encrypting the new key and the challenge value using a public key issued by a host; and

transmitting the encrypted new key and challenge value to the host.

8.   A method of communicating encrypted information between a portable terminal and a self-service terminal, the method comprising the steps of:

using one or more properties of the portable terminal to obtain a sequence of values;

generating a new key based on the sequence of values;

generating a challenge value based on the sequence of values;

encrypting the new key and the challenge value using a public key; and

transmitting the encrypted key and challenge value to the self-service terminal.

9.   A method according to claim 8, further comprising the steps of:

generating a new challenge value at the self-service terminal;

encrypting the generated challenge value using the new key;

transmitting the encrypted challenge value to the portable terminal; and

awaiting a correct response to the transmitted challenge value being transmitted by the portable terminal before accepting any subsequent transaction at the self-service terminal.

10. A transaction system comprising:

a self-service terminal;

a portable terminal which is operable to use one or more properties of the portable terminal for (i) obtaining a sequence of values, and (ii) generating a new key based on the sequence of values; and

means for enabling the portable terminal and the self-service terminal to intercommunicate using the new key.

11. A method of determining if a self-service terminal is an authentic terminal, the method comprising the steps of:

using one or more properties of a portable terminal to obtain a sequence of values;

generating a new key based on the sequence of values;

generating a challenge value based on the sequence of values;

encrypting the new key and challenge value using a public key provided by an institution;

transmitting the encrypted key and challenge to the self-service terminal;

receiving a response from the self-service terminal, decrypting the response using the new key; and

halting any further transmission unless the decrypted response includes a correct reply to the challenge value.